

## **STAFF REPORT**

Meeting Date: 03/09/07  
Agenda Item: 10

To: BEACON Board of Directors  
From: Contracts Manager  
Date 02/28/07

**Subject: Coast of California Storm & Tidal Wave Study**

### **REQUIRED ACTION:**

- a. Receive Verbal Project Report from USGS Representatives on status of the Baseline Surveys effort on the Coast of California Storm and Tidal Wave Study.
- b. Authorize Executive Director to adopt a resolution authorizing BEACON to accept additional State funding in an amount up to \$100,000 from the Department of Boating and Waterways and approve an Amendment to the existing Grant Agreement between BEACON and the Department of Boating and Waterways.
- c. Approve Amendment No.1 to contract with United States Geologic Survey (USGS) for additional funds in the amount of \$242,272 to complete Phase II and Phase III Baseline Surveys.

### **DISCUSSION:**

The Army Corps of Engineer's Coast of California Storm & Tidal Wave Study (CCSTWS) program seeks to develop regional shore protection/sand management plans for the entire California coastline. The program is being implemented by a region/county basis.

The purpose of the study is to gain a better understanding of the underlying coastal processes that govern the width of our beaches and the movement of sand along our coastline. The study does not focus on individual beach erosion problems and/or solutions. The scope of the study is set forth in the Project Master Plan (PMP) and includes a series of wave and coastal bathymetry measurements as well as an in-depth assessment of local coastal processes. The overall cost of the study is \$2.78M, spread out over a four-year period. The primary benefits of the study will be a better understanding of our local coastal processes and beach erosion problems, an improved set of tools to predict future beach erosion patterns in our region, and a means for rapidly disseminating the information to interested government planning, engineering and regulatory agencies.

As the local sponsor, BEACON has signed a Feasibility Cost Sharing Agreement (FCSA) with the US Corps of Engineers. The FCSA stipulates that BEACON will be responsible for 50% of the cost of the study (\$1.39M), which can be made up of cash or in-kind services. The State can also contribute towards the local sponsor's share of the cost. This commitment is non-binding on either party, with the study being delayed if Federal and/or Local funds are not available.



A California Joint Powers Agency

#### **Member Agencies**

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City of Santa Barbara  
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## **BEACON BOARD OF DIRECTORS' MEETING ANNOUNCEMENT**

Friday, March 9, 2007

Page 2

### **Work Completed To Date.**

The State Department of Boating & Waterways (DB&W) has previously granted to BEACON \$850K to use to sponsor necessary studies as part of CCSTWS. BEACON is currently funding the following studies through the DBAW Grant Funds:

- Study: Baseline Surveys – Phase I.  
By: United States Geologic Survey (USGS).  
Scope: Identify and quantify the pathways for nearshore sediment transport in Santa Barbara and Ventura Counties, with emphasis on critical regions of shoreline erosion.
- Study: Wave Study.  
By: University of California San Diego Scripps Institute of Oceanography (Scripps).  
Scope: The Coastal Data Information Program (CDIP) at Scripps Institution of Oceanography has developed a measurement-based methodology to predict regional nearshore (nominally 8-10m depth) wave conditions along the California coastline.
- Study: Lidar Surveys.  
By: Texas Bureau of Economic Geology.  
Scope: Aerial digital topography of shoreline from bluffs to mean low tide. The limits of the surveys are from Point Conception to Point Magu

### **Amendment to DBAW Grant.**

The original contract between BEACON and USGS provides \$297,867 for Phase I of the Baseline Survey scope.

The Department of Boating and Waterways is now prepared to grant additional funding to BEACON in an amount up to \$100,000. These funds will contribute to Phase II and Phase III of the Baseline Survey work with USGS. Staff recommends that the Board adopt a resolution authorizing BEACON to accept additional State funding in an amount up to \$100,000 from the Department of Boating and Waterways and approve an Amendment to the existing Grant Agreement between BEACON and the Department of Boating and Waterways for the additional \$100,000.

### **Amendment to Contract Between BEACON and USGS.**

Assuming receipt of the additional DBAW grant funds discussed above, Staff recommends that the Board execute Amendment No.1 to the contract between BEACON and USGS in order to complete Phase II and Phase III of the Baseline Survey work.